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Railway applications - Radio remote control system of traction vehicle for shunting application

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/18

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English Version

Railway applications - Radio remote control system of traction vehicle for shunting application

Applications ferroviaires - Système de radiocommande à distance des véhicules de traction pour application de manoeuvre

Bahnanwendungen - Funkfernsteuerung von Triebfahrzeugen für Rangierbetrieb

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The safety related functions associated with the system components12

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European foreword

This document (EN 50239:2018) has been prepared by CLC/SC 9XA "Communication, signalling, and processing systems" of CLC/TC 9X "Electrical and electronic applications for railways".

This document supersedes EN 50239:1999.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2020-11-27 conflicting with this document have to be withdrawn

The main changes with respect to EN 50239:1999 are listed below:

- contents related to Safety Integrity Level (SIL) have been deleted, in particular Annex A with all its examples of EN 50239:1999;
- the text of this European Standard is considering only shunting application;
- the title has been replaced by "Railway applications Radio remote control system of traction vehicles for shunting application".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Introduction

This European Standard is prompted to offer a minimum set of requirements for the application of remote control of traction vehicles by means of radio communication, operated by ground personnel during shunting.

The minimum set of requirements is considered with reference to the following aspects:

- operational requirements for the use of radio remote control system;
- functional requirements for the radio remote control system;
- technical requirements for the radio remote control system.

1 Scope

This European Standard contains the application requirements relevant to the radio remote control of a traction unit for shunting application, operated by personnel not physically located at the controls within the vehicle cab.

Requirements specification for radio means and wireless protocols, as well as requirements specification for wireless communication between elements of the train, are not covered by this standard.

This European Standard is applicable to newly manufactured vehicles and retrofitted vehicles.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1037, Safety of machinery - Prevention of unexpected start-up

EN 50121-3-2:2016, Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus

EN 50121-4:2016, Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus

EN 50125-1:2014, Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment

EN 50126-1, Railway Applications - The Specification and Demonstration of Reliability, Availability, Maintainability and Safety (RAMS) - Part 1: Generic RAMS Process

EN 50128, Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems

EN 50129, Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling

EN 50155:2017, Railway applications - Rolling stock - Electronic equipment

EN 50159, Railway applications - Communication, signalling and processing systems - Safety-related communication in transmission systems

koniec náhľadu – text ďalej pokračuje v platenej verzii STN